

OM of: US-09-092-297-17 to: EST:* out-format: pfs
Date: Jan 22, 2000 3:26 AM

About: Results were produced by the Gencore software, version 4.5,
Copyright (c) 1993-1998 Compugen Ltd.

Command line parameters:

-MODEL-frame+ p2n.model -DEV-rlp
-O/-cgn2.1/USPTO.spool/US09092297/runat.20012000.151103.15802/app-query.fasta.1
-DB-EST -OEMT-fastlap -SUFFIX=merjan202000.rst -GAPOP=4.500
-GAPOP=4.500 -MINMATCH=0.100 -LOOPEL=0.000 -LOOPEXT=0.000
-GAPOP=6.000 -GAPEXT=7.000 -XGAPOP=60.000 -XGAPEXT=60.000
-DELOP=6.000 -DELEXT=7.000 -START=1 -MATRIX=0.1190
-TRANS=human40.cdi -LIST=45 -DOCALLIGN=200 -THR_SCORE=quality
-THR_MIN=15 -ALIGN=15 -MODE=LOCAL -OUTFWT=pfs -NORM=ext -MINLEN=0
-MAXLEN=100000 -USER=US09092297 -NCPD=6 -ICPD=3 -NO_XLPHY -WAIT
-THREADS=1

Information block:

US-09-092-297-17
Query length: 117

Database: EST:

Database sequences: 408938
Database length: 1713965092
Search time (sec): 1255.040000

WARN: XGAPOP and YGAPOP must be equal. Assuming YGAPOP=XGAPOP=60.000
WARN: XGAPEXT and YGAPEXT must be equal. Assuming YGAPEXT=XGAPEXT=60.000

Sequence	Strid	Orig	ZScore	EScore	Len	Documentation
gb.est15:AA56370	+	82.00	1565.10	1.9e-78	412	AA56370 aa1e02.r1 Soares_Nhm
gb.est29:AA1572169	+	24.00	452.16	1.8e-16	275	AA1572169 te37e06.x1 Soares_Nhm
gb.est11:AA135677	+	16.00	294.23	1.1e-07	475	AA135677 zr32h04.s1 Soares_Nhm
gb.est14:FE20995	+	9.00	160.76	3.11	403	FE20995 HSPD05444 HM Homo sapi
gb.gss8:AA034057	+	8.00	139.49	4.7.58	531	AA034057 L(3103576 Drosophila m
gb.gss8:AA0581989	+	8.00	137.81	59.00	667	AA0581989 RPCL-11-46BDL.TV RPCL
gb.est1:AA089022	+	7.00	120.57	538.22	508	AA089022 CE11422 Chris Martin sor
gb.est1:AA03255	+	7.00	121.73	463.95	434	AA03255 FB9F8 Fetal brain, Stru
gb.est1:AA038570	+	7.00	123.64	363.42	335	AA038570 ESR104073 S. cerevisiae
gb.est12:AA09194	+	7.00	127.25	228.67	205	AA09194 yf22901.r1 Soares fetal
gb.est12:AA15249	+	7.00	121.02	508.19	478	AA15249 yf89c04.r1 Soares infant
gb.est12:AA68381	+	7.00	123.72	359.32	331	AA68381 yf411f05.r1 Scratagene 11
gb.est13:AA12874	+	7.00	123.61	364.44	336	AA12874 yf14e08.r1 Soares placen
gb.est13:AA8084	+	7.00	121.22	495.14	465	AA8084 yf63c02.r1 Soares breast
gb.est13:AA6767	+	7.00	121.08	504.18	474	AA6767 yf69c11.r1 Soares breast
gb.est13:AA72741	+	7.00	124.35	331.61	304	AA72741 yf91a11.r1 Soares breast
gb.est13:AA8119	+	7.00	122.06	444.76	415	AA8119 yf80g10.r1 Soares placen
gb.est13:AA8011	+	7.00	121.01	509.19	479	AA8011 yf95f05.r1 Soares placen
gb.est13:AA8332	+	7.00	124.75	315.12	288	AA8332 yf60f10.r1 Soares breast
gb.est13:AA76317	+	7.00	123.66	363.39	334	AA76317 yf60f10.r1 Soares breast
gb.est13:AA69509	+	7.00	121.89	454.87	425	AA69509 yf11f10.r1 Soares fetal
gb.est13:AA4591	+	7.00	124.47	326.46	299	AA4591 yf11f10.r1 Soares fetal
gb.est13:AA3733	+	7.00	122.19	437.68	408	AA3733 yf11f10.r1 Soares fetal
gb.est13:AA2067	+	7.00	123.02	393.02	364	AA2067 yf94g07.r1 Soares fetal
gb.est13:AA70110	+	7.00	122.24	434.65	405	AA70110 yf94g07.r1 Soares fetal
gb.est13:AA01207	+	7.00	120.76	525.22	495	AA01207 yf94g07.r1 Soares fetal
gb.est13:AA17541	+	7.00	121.50	478.05	448	AA17541 yf94g07.r1 Soares fetal
gb.est13:AA045641	+	7.00	123.66	362.39	334	AA045641 yf94g07.r1 Soares fetal
gb.est13:AA15179	+	7.00	121.53	476.04	446	AA15179 yf94g07.r1 Soares fetal
gb.est13:AA105850	+	7.00	119.36	628.73	599	AA105850 yf94g07.r1 Soares fetal
gb.est13:AA119287	+	7.00	122.96	396.07	367	AA119287 yf94g07.r1 Soares fetal
gb.est13:AA19615	+	7.00	121.32	489.12	459	AA19615 yf94g07.r1 Soares fetal
gb.est13:AA141336	+	7.00	125.28	294.44	268	AA141336 yf94g07.r1 Soares fetal
gb.est13:AA162738	+	7.00	119.44	622.79	593	AA162738 yf94g07.r1 Soares fetal
gb.est13:AA163025	+	7.00	121.38	485.09	455	AA163025 yf94g07.r1 Soares fetal
gb.est13:AA181054	+	7.00	121.15	500.16	470	AA181054 yf94g07.r1 Soares fetal
gb.est13:AA18612	+	7.00	119.22	640.60	611	AA18612 yf94g07.r1 Soares fetal
gb.est13:AA200013	+	7.00	120.81	522.22	492	AA200013 yf94g07.r1 Soares fetal
gb.est13:AA200013	+	7.00	121.16	499.16	469	AA200013 yf94g07.r1 Soares fetal

gb.est11:AA208890	+	7.00	125.28	294.44	268	AA208890 mu76a02.r1 Soares m
gb.est11:AA210174	+	7.00	122.65	412.34	383	AA210174 mu39f12.r1 Soares 2
gb.est11:AA213286	+	7.00	120.12	570.15	340	AA213286 mu73c09.r1 Soares m
gb.est11:AA217016	+	7.00	120.79	523.22	493	AA217016 mu04f02.r1 Soares m
gb.est11:AA217432	+	7.00	121.68	466.97	437	AA217432 mu94f11.r1 Soares m
gb.gss9:AA0601263	+	7.00	121.58	473.02	443	AA0601263 HS_2093_AI_G11_77C

seq.name: gb.est15:AA56370

seq.documentatn_block:

LOCUS AA56370 412 bp mRNA

DEFINITION aa1e02.r1 Soares_NhmPpu_S1 Homo sapiens cDNA clone IMAGE:8133242

5' mRNA sequence.

ACCESSION AA56370

NID 92178946

VERSION AA56370.1 GI:2178946

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

Eutheria; Primates; Catarrhini; Homidae; Homo.

1 (bases 1 to 412)

REFERENCE Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S.,

Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J.,

Moore, B., Schellenberg, R., Steptoe, M., Tan, F., Theisling, B.,

White, Y., Wylie, T., Waterston, R. and Wilson, R.

WashU-Merck EST Project 1997

Unpublished (1997)

On Sep 1, 1995 this sequence version replaced.

JOURNAL

COMMENT

CONTACT: Wilson R

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: estewatson.wustl.edu

This clone is available royalty-free through LNL; contact the

IMAGE Consortium (info@image.jnl.gov) for further information.

Seq primer: -28m3 rev2 Et from Amerisham

High quality sequence stop: 398.

Location/Qualifiers

1. 412

/organism="Homo sapiens"

/db_xref="CDB:604152"

/db_xref="taxon:9606"

/map="21"

/clone="IMAGE:8133242"

/clone.lib="Soares_NhmPpu_S1"

/tissue_type="pooled human melanocyte, fetal heart, and

pregnant uterus"

/note="Organ: mixed (see below): Vector: pT73D-Pac

(Pharmacia) with a modified polylinker; Site 1: Not I;

Site 2: Eco RI. Equal amounts of plasmid DNA from three

normalized libraries (melanocyte 2bhm, pregnant uterus

NbhmP, and fetal heart NBH19W) were mixed, and ss circles

was used as tracer in a subtractive hybridization

reaction. The driver was PCR-amplified cDNAs from pools of

5,000 clones made from the same 3 libraries. The pools

consisted of 1 M.A.G.E. clones 260232-265223,

340488-345479, and 484488-489479."

BASE COUNT 88 a 116 c 119 g 89 t

ORIGIN

alignment_scores:

Ratio: 82.00 Length: 82

Percent Similarity: 100.000 Gaps: 0

Percent Identity: 100.000

alignment_block:

US-09-092-297-17 x AA56370

Align seg 1/1 to: AA456370 from: 1 to: 412

```

36 ProMetLeuCyGlnProHisLysArgCysGlyAs 52
35 CCCATGACCTCTTACCTGATGCTGTGCACAGCACAAGAGATGTGGGA 84
52 PLSPhetYAsPrLeuGlnHisCysCysTyrAspAlaValAlp 69
85 CAAGTTTACGACCCCTGCGACACTGTGCTATGATGATGATCCGTGTC 134
69 rleuAlaArgThrGlnThrCysGlyAsnCysThrPheArgValCysPhe 85
135 CCTGCGCAGAGACCCAGAGCTGTGGAACCTGACCTTCAGAGTGTGCTT 184
86 GlnGlnCysCysProTyrPheMetValLysLeuLeuAsnGlnAsnGly 102
185 GAGAGAGCTGCCCCCTGACCTCATGTGTAAGCTGATTAACCAAGAACTG 234
102 saspSerAlaArgThrSerAspArgLeuCysArgSerValSer 117
235 CGACTGACGCCGACCTCGATGACAGGCTTGTGCGAGTGTGACG 280

```

seq_name: gb_est29: A1572169

```

seq_documentation_block:
LOCUS A1572169 275 bp mRNA EST 13-APR-1999
DEFINITION tef32h04.x1 Soares.NHMPu.S1 Homo sapiens cDNA clone IMAGE:2088898
3', mRNA sequence.
ACCESSION A1572169
NID 94535543
VERSION A1572169.1 GI:4535543
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Primates; Catarrhini; Homiidae; Homo.

```

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 585 Std Error: 0.00
Seq primer: -40UP from G1bco
High quality sequence stop: 272.
Location/Qualifiers

FEATURES

source

```

1. 275
/organism="Homo sapiens"
/db_xref="taxon:9606"
/map="21"
/clone="IMAGE:2088898"
/tissue_type="Soares.NHMPu.S1"
/label="Pooled human melanocyte, fetal heart, and
pregnant uterus"
/lab_host="DH10B"
/note="Organ: mixed (see below); Vector: pT73D-Pac
(pharmacia) with a modified polylinker. Site.1: Not I;
Site.2: Eco RI; Equal amounts of plasmid DNA from three
normalized libraries (melanocyte 2NBH, pregnant uterus
NBHPU, and fetal heart NBH19M) were mixed, and ss circles
were made in vitro. Following HAP purification, this DNA
was used as tracer in a subtractive hybridization
reaction. The driver was PCR-amplified cDNAs from pools of
5,000 clones made from the same 3 libraries. The pools
consisted of I.M.A.G.E. clones 260232-265223,
340488-345479, and 484488-489479."

```

BASE COUNT 58 a 77 c 56 g 84 t
ORIGIN

alignment_scores:

Quality: 24.00 Length: 24
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-092-297-17 x A1572169

Align seg 1/1 to: A1572169 from: 1 to: 275

```

41 LeuMetLeuCyGlnProHisLysArgCysGlyAspLysPheTyrAsp 57
180 CTGATGCTGTGCGACCCAGCACAAGAGATGTGGGAGCAAGTTCTACGACC 229
57 OLeuGlnHisCysCysTyrAsp 64
230 CTGCGACGACTGTGTGCTATGAT 251

```

seq_name: gb_est11: A195677

```

seq_documentation_block:
LOCUS A195677 475 bp mRNA EST 19-MAY-1997
DEFINITION z132h04.s1 Soares.NHMPu.S1 Homo sapiens cDNA clone IMAGE:665143
3', mRNA sequence.
ACCESSION A195677
NID 91785355
VERSION A195677.1 GI:1785355
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Primates; Catarrhini; Homiidae; Homo.

```

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: estewatson@wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 857 Std Error: 0.00
High quality sequence stop: 308.
Location/Qualifiers

FEATURES

source

```

1. 475
/organism="Homo sapiens"
/db_xref="GDB:5427175"
/db_xref="taxon:9606"
/clone="IMAGE:665143"
/tissue_type="Soares.NHMPu.S1"
/label="Pooled human melanocyte, fetal heart, and
pregnant uterus"
/lab_host="DH10B"
/note="Organ: mixed (see below); Vector: pT73D-Pac
(pharmacia) with a modified polylinker. Site.1: Not I;
Site.2: Eco RI; Equal amounts of plasmid DNA from three
normalized libraries (melanocyte 2NBH, pregnant uterus

```

NbHPU, and fetal heart NbH19W) were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of I.M.A.G.E. clones 260232-265223, 340488-345479, and 484488-489479.

BASE COUNT 109 a 122 c 134 g 108 t 2 others

ORIGIN

alignment_scores:
Quality: 16.00 Length: 16
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-092-297-17 x AA195677/rev

Align seg 1/1 to reverse of: AA195677 from: 1 to: 475

102 CysaspSerAlaArgThrSeraspArgLeuCyArgSerValSer 117
|||||
460 TCGACTCAGCCCGACCTCGATGACAGCTTTGTCGACGTGACG 413

seq_name: gb_est14:F20995

seq_documentation_block:

LOCUS F20995 403 bp mRNA EST 17-MAY-1999
DEFINITION HSPD05444 HM3 Homo sapiens cDNA clone 034-X4-13, mRNA sequence.

ACCESSION F20995

NID G2060171

VERSION F20995.1 GI:2060171

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE

AUTHORS

TITLE

JOURNAL

MEDLINE

COMMENT

On Dec 30, 1996 this sequence version replaced gi:1529536.

Contact: Valle G.
CRIBI Biotechnology Centre
University of Padua
Via Trieste 75, 35121 Padua, Italy
ABI Chromatograms and other information are available on WWW at
http://group.bio.unipd.it.
Location/Qualifiers
1. 403
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="034-X4-13"
/clone_lib="HM3"
/sex="female"
/tissue_type="pectoral muscle (after mastectomy)"
/note="Vector: pCDNMT1 (Invitrogen); Site_1: BstXI;
Site_2: NotI; The library was constructed by G.
Lanfanchi. This library is not subtracted nor normalized.
The first strand cDNA was primed with a biotinylated
oligo-dT-NotI primer
(5'-biotin-AACCGCTCGACGCGCCGCTTTTCTTTT-3'). The
ds cDNA was sonicated and size-selected in the range
350-550 bp. The 3' specific fragments were selected by
streptavidin coated magnetic beads, ligated to
non-palindromic BstXI adapters. NotI digested and
directionally cloned into BstXI-NotI cut pCDNMT1 vector."

BASE COUNT 105 a 97 c 98 g 97 t 6 others

ORIGIN

alignment_scores:
Quality: 9.00 Length: 9
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-092-297-17 x F20995/rev

Align seg 1/1 to reverse of: F20995 from: 1 to: 403

66 AlAvalValProLeuAlaArgThrGln 74
|||||
297 GCCGTGTCCTCGCAAGAACACAA 271

seq_name: gb_gss3:A0034057

seq_documentation_block:

LOCUS A0034057 531 bp DNA GSS 07-JUL-1998
DEFINITION I(3)03576 Drosophila melanogaster P lethal line Drosophila melanogaster genomic Sequence recovered from Both 5' and 3' ends of P element, genomic survey sequence.

ACCESSION A0034057

NID A0034057

VERSION A0034057.1 GI:3293677

KEYWORDS GSS.

SOURCE fruit fly.

ORGANISM Drosophila melanogaster

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea;

Drosophilidae; Drosophila.

1 (bases 1 to 531)

Morzen, N., Mista, S. and Rubin, G.M.

The BDP gene disruption project: Single P element insertions

mutating 30% of Drosophila autosomal genes

unpublished (1998)

JOURNAL

COMMENT

Contact: Gerald Rubin
Berkeley Drosophila Genome Project
University of California, Berkeley
LSA Building, Berkeley, CA 94720-3200, USA
Fax: 5106433947
Email: gerry@fruitfly.berkeley.edu

Sequence recovery method was inverse PCR.

Sequence orientation is forward strand relative to 5' end of P element

The P element insertion position is base 105 in the 531 bases. This insertion position refers to the first base of the 8 base target recognition sequence.

This sequence is also known as SWS Dm0281

FEATURES
Source
Class: transposon-tagged.
Location/Qualifiers
1. 531
/organism="Drosophila melanogaster"
/db_xref="taxon:7227"
/clone_lib="Drosophila melanogaster P lethal line"
/note="Inverse PCR was performed on Drosophila melanogaster strains each of which contains a single P transposable element insertion that is thought to cause either lethality or sterility. The resultant fragment for each strain was directly sequenced to determine the genomic sequence at the site of insertion. Details of the protocols used can be found at
http://fruitfly.berkeley.edu/P-disrupt/inverse_pcr.html."

BASE COUNT 123 a 117 c 146 g 145 t
ORIGIN

alignment_scores:
Quality: 8.00 Length: 8
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-092-297-17 x A0034057 ..

Align seg 1/1 to: A0034057 from: 1 to: 531

29 SerHISGlyAlaProValAlaPro 36
|||||
52 TCTCATGTGTGACCTGTAGCACCG 75

seq_name: gb_gss8:A0581989

s documentation_block:

LOCUS A0581989 667 bp DNA GSS 07-JUN-1999
DEFINITION RPCI-11-460D1.TV RPCI-11 Homo sapiens genomic clone RPCI-11-460D1,
genomic survey sequence.

ACCESSION A0581989

NID 95009099

VERSION A0581989.1 GI:5009099

KEYWORDS GSS.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

AUTHORS Eutheria; Primates; Catarrhini; Hominoidea; Homo.

TITLE 1 (bases 1 to 667)

COMMENT Zhao, S., Adams, M.D., Nierman, W., Malek, J., de Jong, P. and

JOURNAL Venter, J.C.

COMMENT Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready

MAP BUILDING Map Building

UNPUBLISHED (1997)

CONTACT: Shaying Zhao, William Nierman, Mark Adams

DEPARTMENT OF Eukaryotic Genomics

THE INSTITUTE FOR GENOMIC RESEARCH

9712 MEDICAL CENTER DR., ROCKVILLE, MD 20850

TEL: 301 838 0200

FAX: 301 838 0208

EMAIL: hbeetig@org

CLONES ARE DERIVED FROM THE HUMAN BAC LIBRARY RPCI-11. FOR BAC

LIBRARY AVAILABILITY, PLEASE CONTACT PIETER DE JONG

(pieterdejong.med.buffalo.edu). CLONES MAY BE PURCHASED FROM

BACPAC RESOURCES (http://bacpac.med.buffalo.edu/ordering) OR FROM

RESEARCH GENETICS (info@resgen.com). BAC END SEARCH PAGE:

http://www.tigr.org/tdb/human/bac_end_search.html.

Seq primer: T7

CLASS: BAC ends.

LOCATION/QUALIFIERS

1. 667

/organism="Homo sapiens"

/db_xref="GDB:7676328"

/db_xref="taxon:9606"

/clone="RPCI-11-460D1"

/clone_lib="RPCI-11"

/sex="Male"

/cell_type="Lymphocytes"

/note="Vector: pBAC3.6; Site_1: EcoRI; Site_2: EcoRI;

alignment_block:

US-09-092-297-17 x A0581989 ..

Align seg 1/1 to: A0581989 from: 1 to: 667

22 CysIISeArArgLeuGlySer 29
|||||
338 TGTATTTCTAGGCTACTGCTCC 361

seq_name: gb_est1:M89022

seq documentation_block:

LOCUS M89022 508 bp mRNA EST 02-DEC-1992
DEFINITION CE14C2 Chris Martin sorted cDNA library Caenorhabditis elegans
cDNA clone cml4c2 5' similar to flavin-containing monooxygenase
homologous peptide, mRNA sequence.

ACCESSION M89022

NID 9275523

VERSION M89022.1 GI:275523

KEYWORDS EST.

SOURCE Caenorhabditis elegans.

ORGANISM Caenorhabditis elegans

REFERENCE Eukaryota; Metazoa; Nemata; Secernentea; Rhabdita; Rhabditidae;

AUTHORS Rhabditina; Rhabditidae; Rhabditidae; Pelodierinae; Caenorhabditis.

TITLE 1 (bases 1 to 508)

COMMENT Waterston, R., Martin, C., Craxton, M., Huynh, C., Coulson, A.,

Hillier, L., Durbin, R.K., Green, P., Showkeen, R., Halloran, N.,

Hawkins, T., Wilson, R., Berks, M., Du, Z., Thomas, K., Thierry-Mieg, J.

and Sulston, J.

A survey of expressed genes in Caenorhabditis elegans

(USA) Dept. of Genetics or (UK)

(USA) Washington Univ. School of Medicine or (UK) MRC Laboratory of

Molecular Biology

Box 8232, 4566 Scott Ave., St. Louis, MI 63110, USA, or, Hills

Road, Cambridge CB2 2QH, UK

Tel: (USA) (314)3627072 or (UK) (0223)248011

Fax: (USA) (314)3624137 or (UK) (0223)402008

Email: rtwenematode.wustl.edu or jesemrc-jmda.cambridge.ac.uk

Single read.

LOCATION/QUALIFIERS

1. 508

/organism="Caenorhabditis elegans"

/strain="Bristol N2"

/db_xref="taxon:6239"

/clone="cml4c2"

/clone_lib="Chris Martin sorted cDNA library"

/lab_host="MCI061"

/note="Vector: lambda phage SHLX2: Mixed stage

hermaphrodite cDNA library. Partially normalized by

successively picking groups of clones that didn't

hybridize to previously picked clones. Vector: lambda phage

SHLX2 (Lipshitz, D.H. et al., Gene 88:25-36 (1990)) Host:

MCI061"

BASE COUNT 138 a 106 c 130 g 130 t 4 others

ORIGIN

alignment_scores:

Quality: 7.00 Length: 7

Ratio: 1.000 Gaps: 0

Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-092-297-17 x M89022 ..

Align seg 1/1 to: M89022 from: 1 to: 508

110 AsparaglycylserVal 116

Tue Feb 1 11:21:51 2000

us-09-092-297-17.merjan202000.rst

Page 5

343 GATCGATTAAGCCGATCAGTG 363

seq_name: gb_est1:T03295

seq_documentation_block:

LOCUS T03295 434 bp mRNA EST 14-FEB-1997
DEFINITION FB9F8 Fetal brain, Stratagene Homo sapiens CDNA clone FB9F8 3' end,
mRNA sequence.

ACCESSION

T03295

VERSION

T03295.1 GI:314535

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

REFERENCE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Primates; Catarrhini; Homiidae; Homo.

AUTHORS

Khan, A.S., Wilcox, A.S., Polymeropoulos, M.H., Hopkins, J.A.,
Stevens, T.J., Robinson, M., Orpana, A.K. and Sikelis, J.M.,

LE

Single pass sequencing and physical and genetic mapping of human
CDNAs

JOURNAL

Nature Genet. 2, 180-185 (1992)

MEDLINE

9458200

COMMENT

On Sep 21, 1992 this sequence version replaced gi:279432.

FEATURES

Source

Contact: Sikelis, JM

Department of Pharmacology

University of Colorado Health Sciences Center

Box C236, 4200 E. 9th Ave, Denver CO 80262-0236

Tel: 3032708637

Fax: 3032707097

Email: nikki@lethal.uchsc.edu

Seq primer: 21M13 Universal.

Location/Qualifiers

1. 434

/organism="Homo sapiens"

/db_xref="ATCC (inhost):86940"

/db_xref="GDB:D053055P"

/db_xref="taxon:9606"

/clone="FB9F8"

/note="Fetal brain, Stratagene"

/note="Vector: Lambda ZAP II: The PB library (catalog

#937201, Stratagene) was constructed by directional

cloning and oligo d(T)-priming in Lambda ZAP II phage

utilizing mRNA from a 17 week human fetus (total brain)."

BASE COUNT

92 a

121 c

116 g

100 t

5 others

alignment_scores:

Quality: 7.00

Ratio: 1.000

Percent Similarity: 100.000

Percent Identity: 100.000

alignment_block:

US-09-092-297-17 x T03295

Align seg 1/1 to: T03295 from: 1 to: 434

seq_name: gb_est1:T38570

seq_documentation_block:

LOCUS T38570 335 bp mRNA EST 11-JAN-1995

DEFINITION EST104073 S. cerevisiae strain X2180-1A Saccharomyces cerevisiae

CDNA 3' end, mRNA sequence.

ACCESSION

T38570

VERSION

T38570.1 GI:622387

KEYWORDS

EST.

SOURCE

Baker's yeast.

ORGANISM

Saccharomyces cerevisiae

REFERENCE

Eukaryota; Fungi; Ascomycota; Hemiascomycetes; Saccharomycetales;
Saccharomycetaceae; Saccharomyces.

AUTHORS

1 (bases 1 to 335)

TITLE

Weinstock, K.

JOURNAL

Saccharomyces cerevisiae CDNAs

COMMENT

Unpublished (1995)

Other ESTs: TC539

Contact: Weinstock, K. and Venter, J.C.

The Institute for Genomic Research

932 Clopper Rd, Gaithersburg, MD 20878

Tel: 3018699056

Fax: 3018699423

Email: tdbinfo@tdb.tigr.org

For clone availability please contact the TIGR database

(tdbinfo@tdb.tigr.org)

Seq primer: M13-21.

Location/Qualifiers

1. 335

/organism="Saccharomyces cerevisiae"

/strain="X2180-1A"

/db_xref="taxon:4932"

/clone_lib="S. cerevisiae strain X2180-1A"

/note="Vector: pBluescript SK-; Site_1: EcoRI; Site_2:

XhoI"

BASE COUNT

99 a

74 c

61 g

101 t

alignment_scores:

Quality: 7.00

Ratio: 1.000

Percent Similarity: 100.000

Percent Identity: 100.000

alignment_block:

US-09-092-297-17 x T38570/rev

Align seg 1/1 to reverse of: T38570 from: 1 to: 335

seq_name: gb_est2:R09194

seq_documentation_block:

LOCUS R09194 205 bp mRNA EST 05-APR-1995

DEFINITION Y122901.s1 Soares fetal liver spleen INFLS Homo sapiens CDNA clone

IMAGE:127632 3', mRNA sequence.

ACCESSION

R09194

VERSION

9761117

KEYWORDS

R09194.1 GI:761117

EST.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE

1 (bases 1 to 205)

AUTHORS

Hillier, L., Clark, N., Dubugue, T., Elliston, K., Hawkins, M.,
Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M.,
Parsons, J., Rifkin, L., Rohlffing, T., Soares, M., Tan, F.,
Trevas, E., Waterston, R., Williamson, A., Wohlmann, P. and
Wilson, R.

The WashU-Merck EST Project

Unpublished (1995)

TITLE

Unpublished (1995)

JOURNAL

Unpublished (1995)

COMMENT

Unpublished (1995)

Contact: Wilson RK

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: est@watson.wustl.edu
 Insert Size: 978
 High quality sequence stops: 196 Source: IMAGE Consortium, LNL. This
 clone is available royalty-free through LNL; contact the IMAGE
 Consortium (info@image.lnl.gov) for further information.
 Insert Length: 978 Std Error: 0.00
 Seq primer: -21ml3

High quality sequence stop: 196.
 Location/Qualifiers

1. 205
 /organism="Homo sapiens"
 /db_xref="GDB:479793"
 /db_xref="taxon:9606"
 /map="4"
 /clone_lib="Soares fetal liver spleen INFLS"
 /clone="IMAGE:127632"
 /sex="male"
 /dev_stage="20 week-post conception fetus"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: Liver and spleen; Vector: p773D (Pharmacia)
 with a modified polylinker. Site 1: Pac I; Site 2: Eco RI;
 1st strand cDNA was primed with a Pac I - oligo(dT) primer
 (5' AACTGAGAGATTTATTAAGATCTTTTCTTTTCTTTT 3'),
 double-stranded cDNA was ligated to Eco RI adaptors
 (Pharmacia), digested with Pac I and cloned into the Pac I
 and Eco RI sites of the modified p773 vector. Library
 went through one round of normalization. Library
 constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 45 a 56 c 41 g 63 t
 ORIGIN

alignment_scores:

Quality: 7.00 Length: 7
 Ratio: 1.000 Gaps: 0
 Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-092-297-17 x R09194 ..

Align seg 1/1 to: R09194 from: 1 to: 205

31 GYALAPROVALAPromet 37
 ||||||||||||||||||
 169 GGGGCCCTGTGCACCATG 189

seq_name: gb_est2:R15249

seq_documentation_block:

LOCUS R15249 478 bp mRNA EST 13-APR-1995
 DEFINITION yf89c04.r1 Soares infant brain INIB Homo sapiens cDNA clone
 IMAGE:29761.5' similar to gb:x06661_cds1 CALBINDIN (HUMAN);, mRNA
 sequence.

ACCESSION R15249
 MID 9769522
 VERSION R15249.1 GI:769522
 KEYWORDS EST.

SOURCE

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
 Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE

1 (bases 1 to 478)
 Hillier, L., Clark, N., Dubuque, T., Ellison, K., Hawkins, M.,
 Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M.,
 Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F.,
 Trevas, E., Waterston, R., Williamson, A., Wohlmann, P., and
 Wilson, R.

TITLE

The Washu-Merck EST Project
 Unpublished (1995)
 On Sep 21, 1992 this sequence version replaced gi:276431.

Contact: Wilson RK
 Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 High quality sequence stops: 310
 Source: IMAGE Consortium, LNL.
 This clone is available royalty-free through LNL; contact the
 IMAGE Consortium (info@image.lnl.gov) for further information.
 Seq primer: M13RPI

High quality sequence stop: 310.
 Location/Qualifiers

1. 478
 /organism="Homo sapiens"
 /db_xref="GDB:402108"
 /db_xref="taxon:9606"
 /clone="IMAGE:29761"
 /clone_lib="Soares infant brain INIB"
 /sex="female"
 /dev_stage="73 days post natal"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: whole brain; Vector: lafmid BA; Site 1: Not
 I; Site 2: Hind III; 1st strand cDNA was primed with a Not
 I - oligo(dT) primer (5'
 AACTGAGAGATTTCTGCGCGCGGAGATTTTCTTTTCTTTT 3');
 double-stranded cDNA was ligated to Hind III adaptors
 (Pharmacia), digested with Not I and directionally cloned
 into the Not I and Hind III sites of the lafmid BA vector.
 Library went through one round of normalization. Library
 constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 112 a 131 c 126 g 103 t 6 others
 ORIGIN

alignment_scores:

Quality: 7.00 Length: 7
 Ratio: 1.000 Gaps: 0
 Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-092-297-17 x R15249 ..

Align seg 1/1 to: R15249 from: 1 to: 478

69 PROLEUALARGThrglnthr 75
 ||||||||||||||||||
 98 CCCCTCGCGCGAGACAGACA 118

seq_name: gb_est2:T68381

seq_documentation_block:

LOCUS T68381 331 bp mRNA EST 22-FEB-1995
 DEFINITION ycl1f05.r1 Stratagene liver (#937224) Homo sapiens cDNA clone
 IMAGE:83265.5' similar to gb:M4219 BONE PROTEOGLYCAN II PRECURSOR
 (HUMAN);, mRNA sequence.

ACCESSION T68381
 MID 9679529
 VERSION T68381.1 GI:679529
 KEYWORDS EST.

SOURCE

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
 Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE

1 (bases 1 to 331)
 Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chipelli, B.,
 Chissoe, S., Dietrich, N., Dubuque, T., Favello, A., Gish, W.,
 Hawkins, M., Hultman, M., Kucaba, T., Lacy, M., Le, M., Le, N.,
 Mardis, E., Moore, B., Morris, M., Parsons, J., Prange, C., Rifkin, L.,
 Rohlfing, T., Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J.,
 Trevas, E., Underwood, K., Wohlmann, P., Waterston, R., Wilson, R.,
 and Marra, M.

Generation and analysis of 280,000 human expressed sequence tags
 Genome Res. 6 (9), 807-828 (1996)

TITLE

Generation and analysis of 280,000 human expressed sequence tags

Genome Res. 6 (9), 807-828 (1996)

Genome Res. 6 (9), 807-828 (1996)

COMMENT On Oct 24, 1994 this sequence version replaced.

Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: estewatson.wustl.edu

Insert Size: 480
High quality sequence stops: 218 Source: IMAGE Consortium, LNL This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.lnl.gov) for further information.
Insert Length: 480 Std Error: 0.00
Seq primer: M13RP1
High quality sequence stop: 218.

FEATURES

SOURCE

Location/Qualifiers
1..331
/organism="Homo sapiens"
/db_xref="GDB:500322"
/db_xref="taxon:9606"
/clone="IMAGE:83265"
/clone_lib="Soares placenta NB2HP"
/sex="male"
/dev_stage="49 years old"
/lab_host="SOLR cells (kanamycin resistant)"
/note="Organ: Liver; Vector: pBluescript SK; Site_1: EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer: Oligo dt. Hepatectomy from normal male caucasian. Average insert size: 1.1 kb; Uni-ZAP XR Vector; -5' adaptor sequence: 5' GAATTCGCGACGAG 3' -3' adaptor sequence: 5' CTCGAGTCTTTTCTTTTCTTTT 3'."

BASE COUNT

86 a 76 c 78 g 89 t 2 others

ORIGIN

alignment_scores:

Quality: 7.00 Length: 7
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-092-297-17 x T68381/rev ..

Align seg 1/1 to reverse of: T68381 from: 1 to: 331

40 TytleuMelleucysGlnPro 46

|||||
187 TACTTAATGCTCTGCCAGCCC 167

s name: gb_est3:H12824

seq_documentation_block:

LOCUS H12824 336 bp mRNA EST 27-JUN-1995

DEFINITION YJ14808.r1 Soares placenta NB2HP Homo sapiens cDNA clone

(IMAGE:148742.5' similar to gb:M14219 BONE PROTEGLICAN II PRECURSOR (HUMAN)), mRNA sequence.

ACCESSION

NID

H12824

VERSION 9877644

KEYWORDS H12824.1 GI:877644

SOURCE

ORGANISM

human.

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE

AUTHORS

1 (bases 1 to 336)

Hillier, L., Clark, N., Dubuque, T., Elliston, R., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevasakis, E., Waterston, R., Williamson, A., Wohlmann, P. and Wilson, R.

TITLE

The WashU-Merck EST Project

COMMENT

Contact: Wilson RK

Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: estewatson.wustl.edu

Insert Size: 814
High quality sequence stops: 284
Source: IMAGE Consortium, LNL
This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.lnl.gov) for further information.
Insert Length: 814 Std Error: 0.00
Seq primer: M13RP1
High quality sequence stop: 340.

FEATURES

SOURCE

Location/Qualifiers
1..336
/organism="Homo sapiens"
/db_xref="GDB:560540"
/db_xref="taxon:9606"
/clone="IMAGE:148742"
/clone_lib="Soares placenta NB2HP"
/sex="female"
/dev_stage="placenta obtained at birth (full term)"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: Placenta; Vector: pTR73D (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' AACTGGAGAAATTCGCGCCGACAGAAATTTTCTTTTCTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pTR73 vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT

92 a 79 c 78 g 87 t

ORIGIN

alignment_scores:

Quality: 7.00 Length: 7
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-092-297-17 x H12824/rev ..

Align seg 1/1 to reverse of: H12824 from: 1 to: 336

40 TytleuMelleucysGlnPro 46

|||||
319 TACTTAATGCTCTGCCAGCCC 299

seq_name: gb_est3:R48084

seq_documentation_block:

LOCUS R48084 465 bp mRNA EST 18-MAY-1995

DEFINITION YJ63C02.r1 Soares breast 2NDHST Homo sapiens cDNA clone

(IMAGE:153410.5' similar to gb:M62403 INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 4 PRECURSOR (HUMAN)), mRNA sequence.

ACCESSION

NID

R48084

VERSION 9810110

KEYWORDS R48084.1 GI:810110

SOURCE

ORGANISM

human.

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE

AUTHORS

1 (bases 1 to 465)

Hillier, L., Clark, N., Dubuque, T., Elliston, R., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevasakis, E., Waterston, R., Williamson, A., Wohlmann, P. and Wilson, R.

TITLE

The WashU-Merck EST Project

COMMENT

